

4-H ENGINEERING & TECHNOLOGY

4-H STILL EXHIBITS AREA (EXHIBITION HALL C)
Superintendent Coordinator
Oscar Carlson
360-721-7365

Each 4-H member showing in this department is responsible for reading and complying with the **General Rules** for the Clark County Fair, the 4-H rules and regulations (Clark County Fair General Rules and 4-H General Rules documents are available on the Clark County Fair's website www.clarkcofair.com), and the special rules and regulations of this department. The Engineering & Technology Divisions will be located in 4-H Still Exhibit Area in Exhibition Hall C.

ONLINE ENTRIES

Entries can be submitted online. Please log-in to Fairentry with your 4-Honline credentials, you do not need to create an account to submit 4-H Still Exhibit entries. During Still Exhibit Drop-Off on Tuesday, August 4th, entry form and entry tags will already be printed and provided to the department superintendent.

If you would like assistance with submitting your entries online, please contact Phoebe Jud.

IN PERSON ENTRIES

If you would rather not submit your entries online, you can submit your entries in person on Tuesday, August 4 from 10 a.m. to 7 p.m.

ENTRY DROP OFF

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GENERAL INFORMATION

1. Items entered on display must stay in the 4-H Designated Area the entire time of the Clark County Fair. **Release time is Sunday, August 16 after 10 pm and Monday, August 17 between 9 am & noon.** If you are unable to be there at that time, please make arrangements to have your exhibits picked up. Some 4-H exhibits will be taken back to the 4-H Office-check first 564-397-5730.
2. **Entries will be accepted in the 4-H Still Exhibit Area in Exhibition Hall C on Tuesday, August 4 from 10 a.m. to 8 p.m.** Interview judging will be available to 4-H members at the time exhibits are entered if a judge is present in that department. Interview judging is a learning opportunity for 4-H members through feedback on his/her exhibit. Members may select one item per department for interview judging. For further information, (i.e. times and dates), about interview judging in various departments, contact the superintendent listed in the Exhibitor Handbook.
3. **4-H members may only exhibit items in 4-H projects they are enrolled by the first business day of May. (Superintendents will consult with the 4-H Office in the case that 4-H projects and 4Honline project categories are not clearly connected.)**

4. Pre-registration forms for 4-H County Fair Activities will be available at the WSU/Clark County Extension 4-H Program office or online <http://extension.wsu.edu/clark/4hyouthfamilies/clarkcountyfair/> and due at the same location by the last business day of June. (Or online at Fairentry.com, call 564-397-5730 with questions.) Members will participate in activities at assigned times, bringing all materials and supplies needed. Participants must arrive at the activity and be prepared to participate at the assigned time. Failure to start at the assigned time may result in forfeiture of time slot, being moved to another time allocation, and/or having the final ribbon lowered at least one placing. Judges will evaluate member at the time of the activity. Judges' decision is final.

5. Prior to Clark County Fair 4-H participants will be emailed date and time of chosen activity and directed to the site for 4-H worksheets required by some 4-H Activities, once pre-registration is complete. These worksheets must be completed and handed to the superintendent before the start of the activity. **They are to be completed in members' handwriting, or typed by youth.** Incomplete or missing worksheets may result in the lowering of ribbon color at least one placing for the activity. Any photos required for the activity will be attached to the worksheet when it is turned in. Activity worksheets can be found at: <http://extension.wsu.edu/clark/4hyouthfamilies/clarkcountyfair/>

6. Building Security - Any parent and/or leader, whose child is enrolled in projects displayed or activities in the 4-H Still Exhibit Area (Exhibition Hall C) must sign up for a security shift. Sign up on Tuesday, August 4th (Entry Day) from 10 am-8 pm.

4-H STATE FAIR

4-H Still Exhibits/4-H Activities are required to sign up online and all projects to State Fair Coordinators no later than Monday, August 17 by noon. Coordinators will be present from 9 am - Noon on Monday.

4-H State Fair paperwork may done online once judging is complete and exhibit qualifies.

Deadline for 4-H Still Exhibit entries exhibiting at 4-H State Fair: Monday, August 17 by Noon! Entries are received in the Clark County Event Center, Exhibit Hall C, State Fair Coordinator

No entries will be accepted after Noon.

Check the WA State Fair Exhibitor Handbook for Class & Lot information to complete paperwork.

<http://4h.wsu.edu/statefair/>

DIVISION 900: ROCKETRY (Aerospace)

Superintendent:

Erin Stuhlsatz
360-904-0157

Assistant Superintendent:

Greta Stuhlsatz
360-904-0850

Exhibits are entered on Tuesday, August 4, from 10 am to 7 pm at the Clark County Fair Grounds in the Event Center Exhibit Hall C – 4-H Still Exhibit Area.

ONLINE ENTRIES

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RULES & REGULATIONS:

4-H members must be enrolled in the Aerospace Project. Exhibits include those made from model rocket kits. Members may enter one rocket that they have constructed and flown themselves. The exhibitor will provide a data sheet that includes:

1. Name, age, and address of exhibitor.
2. Preflight information (kind and size of rocket).
3. Launch, weather, and flight data.

A "Certificate of Flight" (C0994 rev7/97) must be attached to the exhibit. Certificates can be picked up at the WSU/Clark County Extension office or online at

<https://pubs.wsu.edu/ItemDetail.aspx?ProductID=13228> or

<http://www.4-hmall.org/Catalog/SearchResults.aspx?SearchQuery=rocket>

Rockets will be judged according to degree of challenge on workmanship and stability.

Points allowed:

Degree of Challenge	Blue	Red	White
1.	6	5	3
2.	8	6	4
3.	10	8	6
4.	16	14	8
5.	20	16	10

Each member may enter only one entry between Classes 1 and 9.

CLASS:

1. Single Stage
2. Mini Brute
3. Boost Glider
4. Multi Stage
5. Scale Flying Models
6. Exotic Designs
7. Maxi Brute
8. Special purpose models (payload, camera, transmitters, research, etc.)
9. Rocket built from plans other than kits (must be accompanied by plan sheet).
10. Aerospace exhibits going to State Fair must have a Certificate of Flight (C0994) attached. The exhibit must be put back into a preflight appearance for exhibiting purposes.

DIVISION 905: BICYCLE

Superintendent:

Erin Stuhlsatz
360-904-0157

Assistant Superintendent:

Greta Stuhlsatz
360-904-0850

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ENTRY DROP OFF

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RULES & REGULATIONS:

Exhibitors must be enrolled in the Bicycle Project (HCC). Curriculum can be located at <https://pubs.wsu.edu/ListItems.aspx?Keyword=EM4837> or <http://www.4-hmall.org/Catalog/SearchResults.aspx?SearchQuery=bicycle>

Points:

	Blue	Red	White
1. Poster	12	10	8
2. Notebook	10	8	6
3. Accessory made by member	9-12	6-8	0-5
4. Club Display	20	15	10

CLASS:

1. Poster - May show any topic regarding project.
2. Notebook - On safety or club projects or bike trips with pictures and explanations (mileage, place of travel, weather, club or single).
3. Accessory - Limit of one. Must be made by member. Accessory made for bike or member. Must be made during the current 4-H year.
4. Club Display - Display should show club name, education value, design, creativity, neatness, convey a message.

DIVISION 910: COMPUTER TECHNOLOGY

Superintendent:

Erin Stuhlsatz
360-904-0157

Assistant Superintendent

Greta Stuhlsatz
360-904-0850

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RULES & REGULATIONS:

Exhibitors must be enrolled in the 4-H Computer project. Curriculum can be found at <https://pubs.wsu.edu/ListItems.aspx?Keyword=C0861> or <http://www.4-hmall.org/Catalog/SearchResults.aspx?SearchQuery=computers>

Be creative to produce an exhibit for the Clark County Fair. There are many ways to reflect your creative talents. By using your existing software, you can create and/or enhance many common everyday things.

A 3x5 card is required with the following information for each entry.

A. Introduction:

- 1) Your age, grade in school, number of years using a computer, and the name of your 4-H club.

B. Project:

- 1) What project did you select?
- 2) Why did you decide to do this project?

C. Materials:

- 1) What materials did you use (software, Hardware, books, etc.)?
- 2) What made you choose these materials?

D. Steps:

- 1) List the steps that you used to create your project.

E. Results:

- 1) Show an example of your final project.
- 2) Did you like the project?
- 3) Was the final project what you expected it to be when you were done?

- 4) If you were to do it again, would you have done anything differently; explain?
- 5) What did you learn from your experience?

F. Guidelines to follow:

Each project must have a hard copy of your project for display and judging at the Clark County Fair. Exhibitors can have a total of 10 entries with no more than three of the same type.

Points will be awarded by the judge using the following guidelines:

- 1) Content
- 2) Neatness
- 3) Difficulty

Points: Blue – 14 Red – 10 White – 6

CLASS – 1: Exhibitors can have a total of 10 entries. Limited to 3 entries of the same type.

- A. 4-H records
- B. Document your community service projects
- C. Compose music
- D. Develop games
- E. Layout landscape scenes
- F. Create building designs
- G. Write up club newsletters
- H. Create newspaper articles
- I. Write computer manuals/guides
- J. Outline and track a nutrition program
- K. Accounting or record keeping
- L. Other

CLASS - 2 Geospatial

Objectives: Explore geographic positions; Use navigational tools, Measure distances, Create maps, Assess community problems, and Solve complex problems using technology. Exhibitor must be enrolled in the Geospatial Science Project (HA).

Curriculum can be found at <http://www.4-hmall.org/Category/4-hcurriculum-geospatial.aspx> Any item or display must have a 3x5 card is required with the following information for each entry.

- A. Introduction:
 - 1) Your age, grade in school, number of years using a computer, and the name of your 4-H club.
- B. Project:
 - 1) What project did you select?
 - 2) Why did you decide to do this project?
- C. Materials:
 - 1) What materials did you use (software, Hardware, books, etc.)?
 - 2) What made you choose these materials?
- D. Steps:
 - 1) List the steps that you used to create your project.
- E. Results:
 - 1) Show an example of your final project.
 - 2) Did you like the project?
 - 3) Was the final project what you expected it to be when you were done?
 - 4) If you were to do it again, would you have done anything differently; explain?

5) What did you learn from your experience?

F. Guidelines to follow:

Each project must have a hard copy of your project for display and judging at the Clark County Fair. Exhibitors can have a total of 10 entries with no more than three of the same type.

Points will be awarded by the judge using this guideline:

- 1) Content
- 2) Neatness
- 3) Difficulty

DIVISION 915: SMALL ENGINES

Superintendent:
Erin Stuhlsatz
360-904-0157

Assistant Superintendent
Greta Stuhlsatz
360-904-0850

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IN PERSON ENTRIES

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RULES & REGULATIONS:

Exhibitors must be enrolled in the 4-H Small Engine project. This division includes small engines, automotive parts and tools, and lawn mowers.

Small Engines Project Online Site:

<http://extension.wsu.edu/4h/publications/engineering/Pages/project.aspx?PID=HCG> or <http://www.4-h.org/resource-library/curriculum/4-h-small-engines/> Exhibits will be judged on individual merit using the following criteria:

1. What the member has learned.
2. How the display communicates to the public what was done.
3. Workmanship of basic skills. Include a sufficient explanation either in writing, or orally, to the judge to explain how the exhibit was made or what was done.

Points: Blue 10, Red 8, White 6.

CLASS 1:

Members may exhibit self-made wall charts 15"x20" inches showing basic engine functions or safety factors.

- A. Cooling systems
- B. Filtering of oil or air
- C. Carburetor
- D. Ignition
- E. Total operational costs
- F. Major cause of accidents

CLASS 2:

Example of sheet metal repair or refinishing with successive applications on strip of sheet metal 15"x20".

CLASS 3:

Exhibit of defective brake parts - including drum section - labeled and mounted on board - maximum size 15"x 20".

CLASS 4:

Tire tread sections (3 inches wide) showing under-inflation, over-inflation, and faulty wheel alignment - all labeled and mounted on panel 15"x20".

CLASS 5:

Breakdown display of small engine parts on plywood panel. Minimum size 24"x30" to 4'x8' maximum.

CLASS 6:

Basic tool set on board, maximum size 15"x20".

CLASS 7:

Examples of tool defects (4 pieces).

CLASS 8:

Demonstrate the difference between renewable and non-renewable energy.

CLASS 9:

Demonstrate why energy costs money.

CLASS 10:

Any other project or exhibit related to project work showing initiative, originality, and accomplishment. Points awarded by judge.

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DIVISION 917 WELDING

Projects created during the current 4-H project year. No more than one entry per CLASS per member. A 3x5 is required to accompany each entry explaining what the item is, how it is used, and what techniques were used, and what was learned for the experience.

Points: Blue 18, Red 16, White 12

- CLASS 1 Display board featuring three or more different types of welds
- CLASS 2 Any Small, Medium or Large welded item
- CLASS 3 Any Large welded project consisting of 6 hours or more of work.

DIVISION 918 ELECTRICITY

Projects created during the current 4-H project year. Member must be enrolled in the 4-H Electricity Project HCE. Project objectives: Develop electrical skills and knowledge, Learn electrical terminology, Calculate electrical loads on circuits, Perform home maintenance electrical repairs, Be able detect electrical hazards, Construct simple electrical connections, Identify types of electrical equipment, Help educate others about electrical concepts and skills, and Explore careers related to electricity and electronics.

Order materials/curriculum from <http://www.4-hmall.org/Category/4-hcurriculum-electric.aspx>

. A 3x5 is required to accompany each entry explaining what the item is, how it is used, and what techniques were used, and what was learned for the experience.

Points: Blue 18, Red 16, White 12

CLASS 1: Item/projects from “Magic of Electricity” grades 4-5

CLASS 2: Item/project from “Investigating Electricity” grades 6-7

CLASS 3: Item/Project from “Wired for Power” grades 8-9

CLASS 4: Item/Project from “Entering Electronics” grades 10-12

DIVISION 920: WOODWORKING

Superintendent:

Erin Stuhlsatz
360-904-0157

Assistant Superintendent:

Greta Stuhlsatz
360-904-0850

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ENTRY DROP OFF

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RULES & REGULATIONS

Exhibitors must be enrolled in the Woodworking Project. Woodworking curriculum information can be found at <http://extension.wsu.edu/4h/publications/engineering/Pages/project.aspx?PID=HCH> or <http://www.4-hmall.org/Catalog/SearchResults.aspx?SearchQuery=Wood+working>. The 4-H member must make entries during the current 4-H year. Along with each entry form, the exhibitor must submit an information sheet that will include the following:

- A. Name and age.
- B. What tools were used?
- C. What kind or kinds of wood were used?
- D. What kind of finish was used?

Articles will be judged on:

- Originality
- Degree of difficulty
- Joinery
- Preparation for finish
- Finish

Points: Blue 30, Red 20, White 10

CLASS:

- A. Junior Novice
- B. Junior
- C. Intermediate Novice
- D. Intermediate
- E. Senior Novice
- F. Senior
 - 1. Small crafts
 - 2. Medium crafts
 - 3. Large crafts
 - 4. Turnings
 - 5. Cabinetry
 - 6. Furniture
 - 7. Other